

ATMI-579

Section I. Amendments to the Specification.

Please replace paragraph [00026] at page 15, lines 3-11 of the application with the following new replacement paragraph [00026]:

[00026] Multiple ~~reagent reagents~~ reservoirs 38 are in fluid communication with the carrier fluid duct 28 and/or analysis chamber and may be positioned downstream of the multi-port valves 26 for adding to the analysis chamber. The reagents may be introduced to the system via valve 52 thereby introducing a reagent to the plating bath sample to form a plating bath/reagent mixture that passes to the analysis chamber 12. For this purpose the appropriate valves 51, 52 and 53 may be operated several times to inject a required amount of reagent for mixing with the plating bath sample. Flow then continues to take the sample/reagent mixture to the analysis chamber ~~20~~ 12. Notably, there is no limit to the number of reagent containers that may be connected to the carrier fluid duct 28 and/or analysis chamber 12.

Please replace paragraph [00030] at page 17, lines 1-8 of the application with the following new replacement paragraph [00030]:

[00030] The sampling system of the present invention permits purging of the system between each sample analysis by flushing the system with an inert gas, followed by ejection of the gas and any remaining residue through the downstream ~~waste valve~~ drain outlet 36. Opening the valve 31 to the purging gas source 32 enables full flushing of the system. It should be noted that priming and/or flushing is not an essential intermediate step between successive samplings, which is advantageous if several samples aliquots are to be successively drawn from the same reservoir, for example to test for different analytes as discussed below relating to the second embodiment described in FIG. 2.